

CATALYST COMPOSITION FOR OLEFIN POLYMERIZATION

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Abstract of JP1242605

PURPOSE: To obtain a highly stereoregular polymer with a high yield, by (co) polymerizing an olefin in the presence of a catalyst consisting of a specified catalytic component, an org. Al compd. and an org. Si compd.

CONSTITUTION: This catalyst for polymn. of olefins is obtd. by combining a catalytic component obtd. by reacting an Mg compd. (e.g., MgCl₂), a Ti compd. (e.g., TiCl₄) and, if necessary, a halogen compd. (e.g., HCl) and an imidazole(deriv.) (e.g., benzimidazole) at a molar ratio of Ti : Mg : imidazole(deriv.) of 1:1-1,000:10<-5>-100 with an org. Al compd. (e.g., triethylaluminum) and an org. Si compd. having an Si-O-C or an Si-N-C bond (e.g., tetramethoxysilane). A 12C or lower olefin is (co)polymerized in the presence of this catalyst in an inert solvent at -10-180 deg.C.

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